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(12) Patent:

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(54) INTERCHANGEABLE BLADE AND HANDLE HOCKEY STICK

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ABSTRACT:

CLAIMS: [Show all claims](#)

*** Note: Data on abstracts and claims is shown in the official language in which it was submitted.

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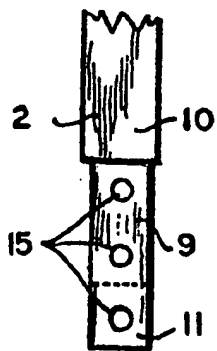


FIG. 5

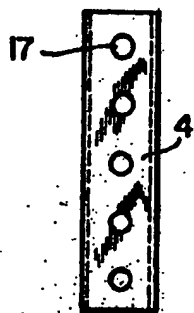


FIG. 7

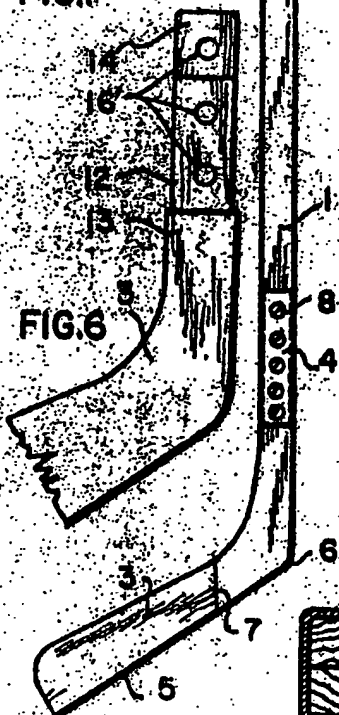


FIG. 1

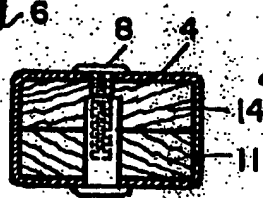


FIG. 4

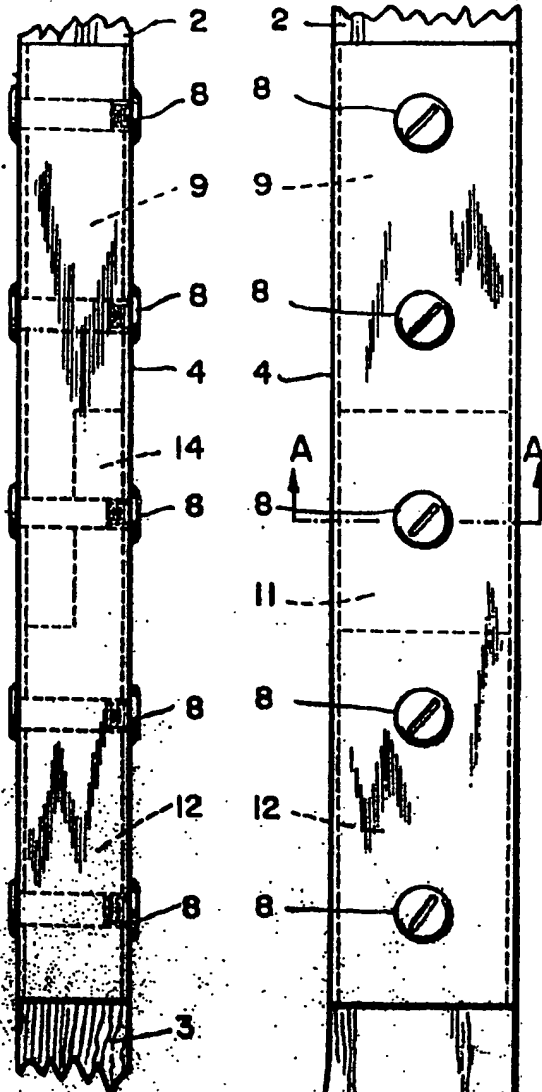


FIG. 3

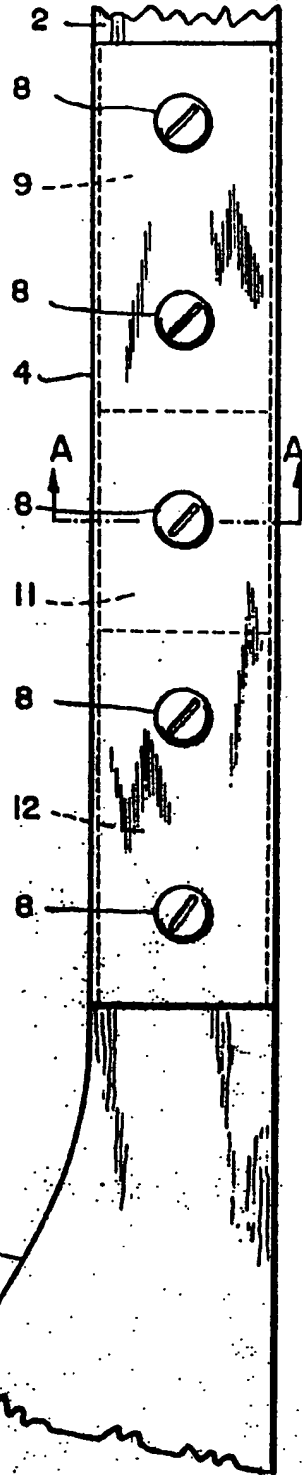


FIG. 2

*Quasi, & Quasi
Squall for
Frank Bonser*

The invention relates to a hockey stick which has an interchangeable blade and handle.

At present when any part of a hockey stick, whether blade or handle becomes broken the stick must be discarded. One type of hockey stick that is gradually passing out of use is the hockey stick that is formed by bending the wood to form the handle and blade. The official type of hockey stick in present use is formed with an inserted plywood heel between the handle and blade, which greatly strengthens the heel and eliminates the former practice of bending the wood to form the blade and handle.

The main object of this invention is to provide a hockey stick that is more economical, more durable and simpler to manufacture.

Also another object is to provide a hockey stick that has an interchangeable blade and handle.

Also another object is to provide a hockey stick in which there is an eventual saving in cost of at least two thirds of the cost to the user of a series of hockey sticks through the replacement of only a part of the stick.

Also another object is to provide a hockey stick in the manufacture of which there is a considerable saving in lumber through only a part of the hockey stick having to be replaced when broken.

These objects are attained by providing a hockey stick that is made in two parts, a blade and a handle. The lower part of the handle and the upper part of the blade are formed to fit together in proper alignment, and a sleeve is fitted over the two interconnecting parts. Aligned apertures are provided in the interconnecting parts of the handle and blade and the sleeve for detach-

ably and securely connecting them together. Left hand, neutral, right hand blade or blades of any lie may be interchanged within the sleeve.

The invention consists in the novel arrangements, construction and combination of parts hereinafter described and shown in the drawings.

Figure 1 - is a side view of the hockey stick with the interchangeable blade and handle.

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Figure 2 - is an enlarged side view of part of the blade and handle in assembled position.

Figure 3 - is an enlarged edge view of part of the blade and handle in assembled position.

Figure 4 - is a transverse cross section of the hockey stick on the line A-A of Figure 2.

Figure 5 - is a side view of the lower end of the handle.

Figure 6 - is a side view of the upper end of the blade.

Figure 7 - is a side view of the sleeve for locking the handle and blade in assembled position.

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Referring to the drawings, particularly to Figure 1, the hockey stick 1 consists of a handle 2 and a blade 3, which are joined together by a sleeve 4. Screws 8 are shown for locking the sleeve 4 solidly to the handle 2 and the blade 3.

The blade 3 is shown formed of a toe part 5 and a heel part 6. The toe part 5 and the heel part 6 are fitted together to form a laminated heel. The line 7 shows the point at which a tongue from the toe part 5 enters a slot in the heel part 6 to form the laminated heel.

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Referring to Figures 2, 3 and 4 the joint for the handle 2 and blade 3 is shown in greater detail. The sleeve 4 is provided with saw screws 8 for securely locking the

interlocking parts of the handle 2 and blade 3 together. It will be seen from Figure 3 that the saw screws 8 are male and female screws which tighten together from either side. Although the drawings show the heads of the saw screws 8 projecting slightly outwardly from the sleeve 4 this is only for illustration purposes, as the heads will be countersunk to avoid possible dangerous projections on the sleeve 4.

10 Figures 5, 6, and 7 show the disassembled parts of the handle 2 and blade 3 which are to be interlocked together and Figure 7 shows the structure of the sleeve 4. The lower part of the handle 2 as shown in Figure 5 has a part 9 slightly reduced in cross section to the part 10 and has a tongue 11, shown in dotted lines. The upper part of the blade 3 as shown in Figure 6 has a part 12 slightly reduced in cross section to the part 13 and has a tongue 14. The sleeve 4 shown in Figure 5 is made to the desired size to fit over the reduced parts 9 and 12 of the handle 2 and the blade 3 respectively, so that both the handle and the blade are flush all around with the connecting sleeve and avoiding
20 any dangerous projections on the hockey stick. Holes 15, 16 and 17 in the handle 2, blade 3 and the sleeve 4 are spaced at predetermined distances to receive the saw screws 8 for locking the parts in secure position.

Referring again to Figure 3, the tongues 11 and 14 are shown in dotted lines in overlapping position with the sleeve 4 extending over the parts 9 and 12. The saw screws 8 are clearly shown passing through the holes 15, 16 and 17 as described above in Figures 5, 6 and 7.

30 The joint between the heel and the blade should be about 6 to 8 inches from the heel of the blade. Any types

of fasteners other than the saw screws 8 may be used as long as they hold the sleeve securely to the handle and blade. The connecting sleeve 4 may be, for example, 6 inches in length and have inner measurements of $3/4$ " by 1". The sleeve may be made of fiber glass, plastic, aluminum, or other suitable materials. The screw holes may be placed as described, but the positions as shown in the drawings is considered satisfactory for making the joint secure.

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While the Invention has been fully described with particular reference to the specific embodiments, it is understood it is not to be limited thereto but is to be construed broadly and limited only by the scope of the claims.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:-

10 Claim 1. A hockey stick comprising of a handle and a blade detachably connected, the said handle having upper and lower ends, and the said blade having a toe part, a heel, and an upper extending end, the lower end of said handle and the upper end of said blade formed with interconnecting parts, a sleeve for fitting over the said lower end of said handle and the said upper end of said blade when in interconnecting position and detachable fastening means for securely connecting said handle, said blade and said sleeve together.

Claim 2. A hockey stick as defined in Claim 1 in which the said interconnecting parts of said lower end of said handle and the said upper end of said blade consists of tongues adapted to overlap when in assembled position.

20 Claim 3. A hockey stick as defined in Claim 1 in which the outer surface of the lower end of said handle and the outer surface of the upper end of said blade are reduced in size to receive and maintain the said sleeve flush with the remaining adjacent surface of the said handle and the said blade.

Claim 4. A hockey stick as defined in Claim 1 in which said detachable fastening means consists of apertures in the said lower end of said handle, the upper end of said blade, and the said sleeve, and fasteners passing through the said apertures for fastening the said handle, blade and sleeve together.

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PATENT AGENTS FOR APPLICANT.

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